

KUZAKOVA, M.V., kand.med.nauk

Influence of acute ischemia on the shin muscles in the application of a hip tourniquet. Shor. nauch. trud. GILUV no. 14:103-107 '58. (MIRA 13:10)

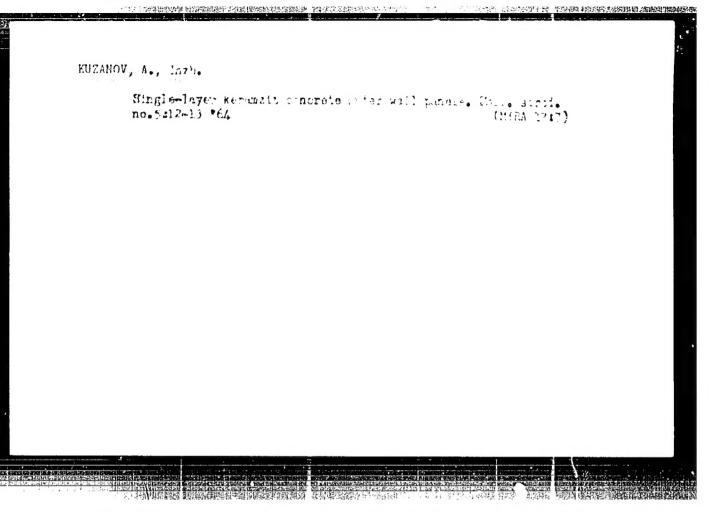
1. Iz kafedry operativnoy khirurgii gosudarstvennogo instituta dlya usovershenstvovaniya vrachey (zav. kafedroy prof. A.P. Nadein).

(BLOOD—CIRCULATION, DISORDERS OF) (MUSCLE)

DABROWSKI, Witold; KUZAN, Czeslaw

Surgical treatment of biliary calculi, Wiad. lek. 18 no.20: 1585-1590 15 0 165.

1. Z Oddz. Chir. Miejskiego Szpitala w Tomaszowie-Mazowieokim (Ordynator: dr. W. Dabrowski).



KUZAMDV, A.B. (g.Kuybyshav); KHARITOMOV, A.I. (g.Kuybyshav)

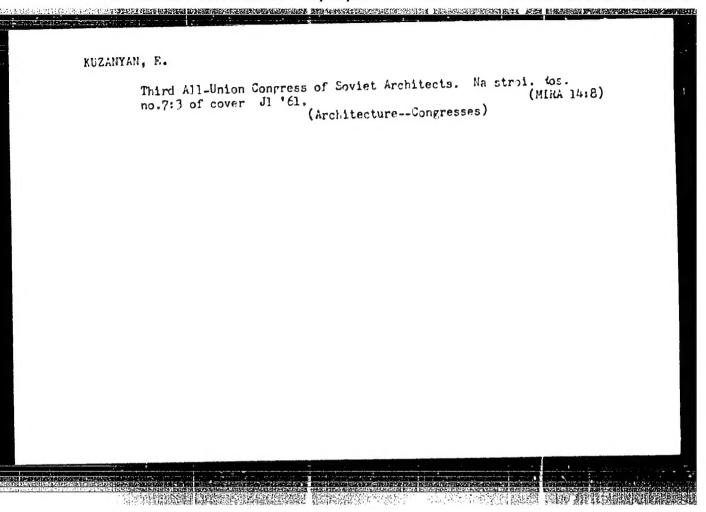
Constructing bridge supports on high pile grillage foundations.
Onn., fund.i mekh.grun. no.5:18-20 '59. (MIRA 12:12)
(Bridges, Pile)

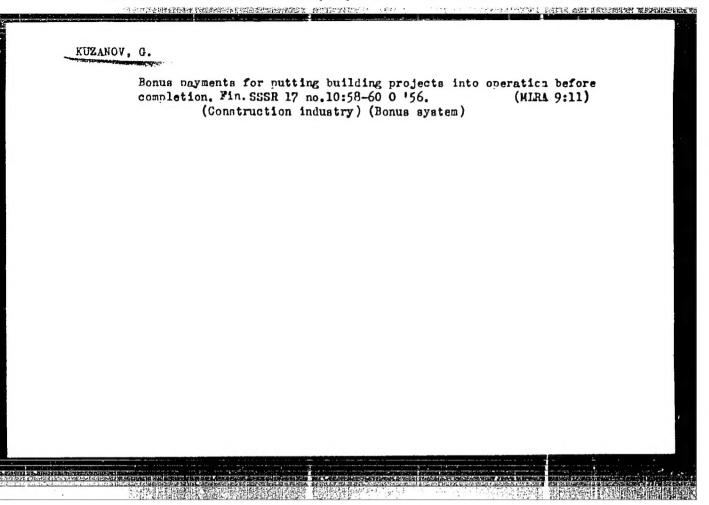
KUZANOV, Ye.I.; KANDELAKI, D.P., red. izd-va; KHUTSISHVILI, V.V., tekhn. red.

[Closed lesions of the liver and spleen]Zakrytye povrezhdeniia pecheni i selezonki. Tbilisi, Gos.izd-vo "Sabchota Sakartvelo," 1962. 174 p. (MIRA 15:9)

(LIVER-HOUNDS AND INJURIES)

(SPLEEN-MOUNDS AND INJURIES)





#### "APPROVED FOR RELEASE: 03/13/2001 CI

RUZANOV, B. G.

CIA-RDP86-00513R000927930011-9

"New Methods for the Electric Calculation of Agricultural High-Voltage Networks with Steel Lines."

Dissertation for the Degree of Candidate of Technical Sciences, defended at Moscow Institute for Mechanization and Electrification of Agriculture. 21 December 1951. (Elektrichestvo, 1955, Nr 4, pp. 92-93).

KARAPETYAN, Saak Karanetovich, akad.; KUZANYAN, M., red.; CHANCHAPANYIN, E., tekhn. red.

[Biological principles underlying the increase of productivity and ways for the intensification of poultry raising in the Armenian S.S.R.] Biologicheskie osnovy povysheniia produktivnosti i puti intensifikatsii ptitsevodstva v Armianskoi SSR, Erdvan, Armsel'khozgiz, 1962. 405 p. (MIRA 16;4)

1. Akademiya nauk Armyanskoy SSR (for Karapetyan). (Armenia—Poultry)

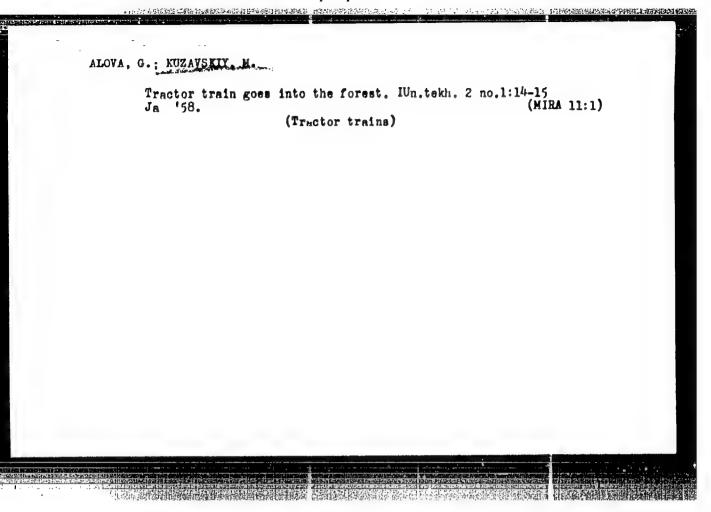
EUZAVEVA, N.I.

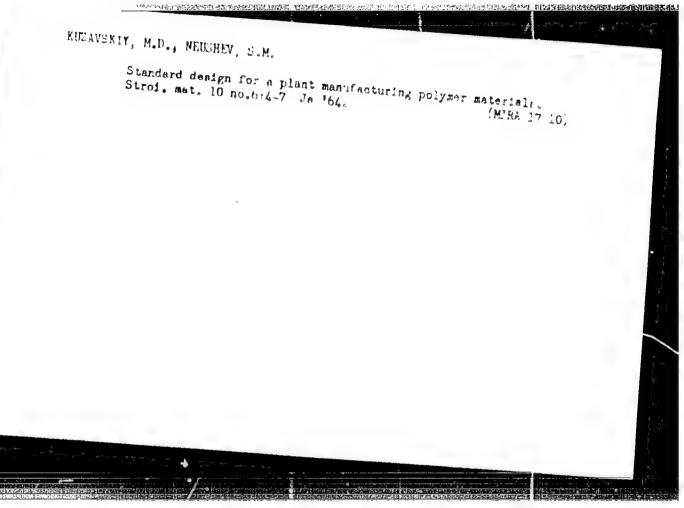
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EUZAVOVA, N.I.

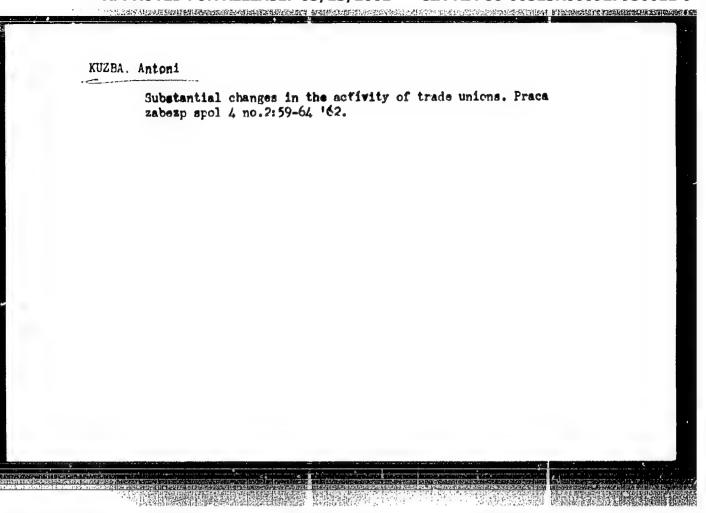
Intravasation during hysterosalpingography. Vest. rent. i rad.
39 no.1:51-54 Ja-F '64. (MIRA IS:2)

1. Otdeleniye neoperativnoy ginekologii (zav. - prof. Ye.P.
Mayzel') Instituta akusherstva i ginekologii AMN SSSR, leniagrad.





APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927930011-9"



KUZBESOV, G. A. Gorn e bogatstva Sibirskogo Kraia. Moskva, Posizdat, 1929. 111 p. (Biblioteka sotsial'no- ekonomicheskikh znanii.)

"Spisok glavneishikh literaturnyah istochnikov": p. 1097.

DLC: TEILOY.KE7

So: LC, Soviet Geography, Part II, 1951/Unclassified.

Muzhasov, G. inzhener

Discontinuous work week in mining. Mast. ugl. h no.2:17-18 F '55.

(Donets Basin--Coal mines and mining)

(MLTA 8:6)

TEKUCHEV, N.F., gornyy inzh.; KUZRASKOV, G.A., gornyy inzh.

Twin entry system mining at the "Proletarskaia-Glubokaia" mine.
Ugol' Ukr. 3 no.8:41-43 Ag '59. (MIRA 12:12)

1.Donetskiy ugol'nyy institut.
(Donets Basin--Coal mines and mining)

# Development of animal husbandry in the Tashkent suburban zone during the period of rapid development of agriculture. Nauch. trudy TashGU no.206:33-53 \*62. (MIRA 16:6)

(Tashkent region-Stock and stockbreeding)

Accounted fortune on a correct mitter on to the correct materials of the first market in the use of accountering for the first outside of the first market market in the first market market for the first market ma

L 01179-66 ACCESSION NR: AP5025872 PO/0022/65/000/005/0146/0150 AUTHOR: Kuzdrzal-Kicki, Jerzy (Engineer) TITLE: Electronic measurement apparatus at the 34th International Fair in Poznan SOURCE: Przeglad telekomunikacyjny, no. 5/ 1965, 146-150 TOPIC TAGS: electronic measurement, electronic test equipment, voltmeter, electronic The article describes several items of interest which. were exhibited at the 34-th Annual International Poznan Fair. Special attention is devoted here to electronic measurement apparatus such as a frequency deviation meter, a digital voltmeter, 2 regulated RC- type oscillators, a decade oscillator, a ferrite-type modulator, an attenuator standard, a microwave ring resonator power amplifier, a heterodyne microvoltmeter, a narrow-band and a wide-band microvoltmeter, an audio oscillator, an oscillosynchroscope and a wide-band synchroscope with various attachments. The latter set was designed and built by the Bureau of Nuclear Engineering Apparatus (Biuro Urzadzen' Techniki Jadro-

# "APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930011-9

L 01179-66
ACCESSION NR: AP5025872

wej). The last item on the list here is an oscillator with two time-base sweep generators for producing time lags over a wide range. Orig. art. has: 11 figures and 3 tables.

ASSOCIATION: Instytut Tele- 1 Radiotechniczny (Institute of Telecommunication and Radioengineering)

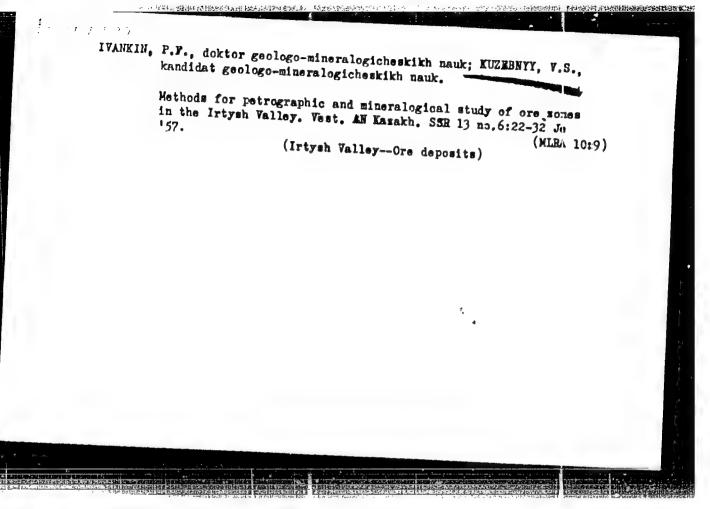
SUBMITTED: 00 ENCL: 00 SUB CODE: EC

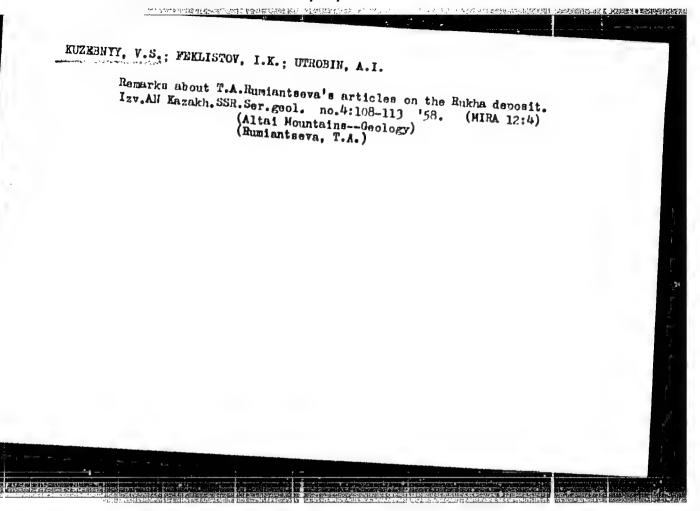
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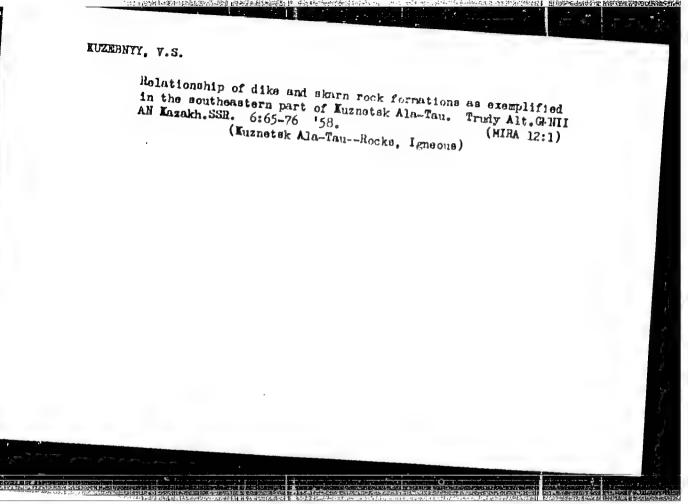
RULAKOV, B.N., KUZE, S.K.

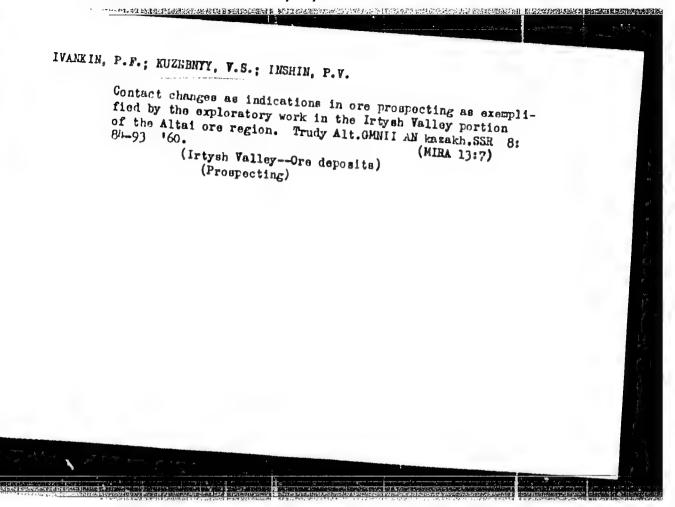
[Tuberculosis; bibliographical index of the Soviet literature for the period 1957-1960] Tuberkuloze; padomju literaturas bibliografisks saraksts par 1957 - 1960 gadiem. Tuberkulez; bibliograficheskii ukazatel otechestvennoi literatury za 1957-1960 gody. Riga, 1962. 368 p. (MIRA 17:5)

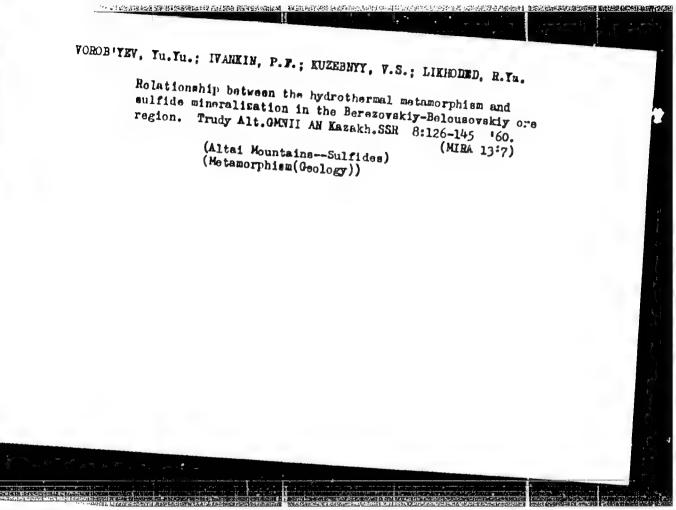
1. Rigu. depublikaniska zinatniska medicinas biblioteka.

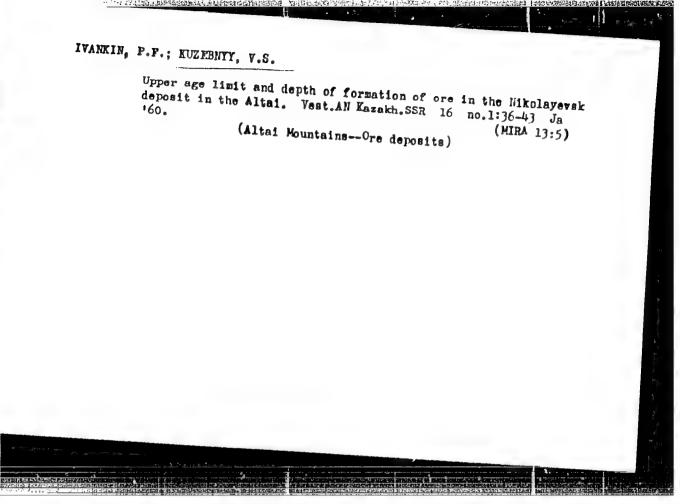


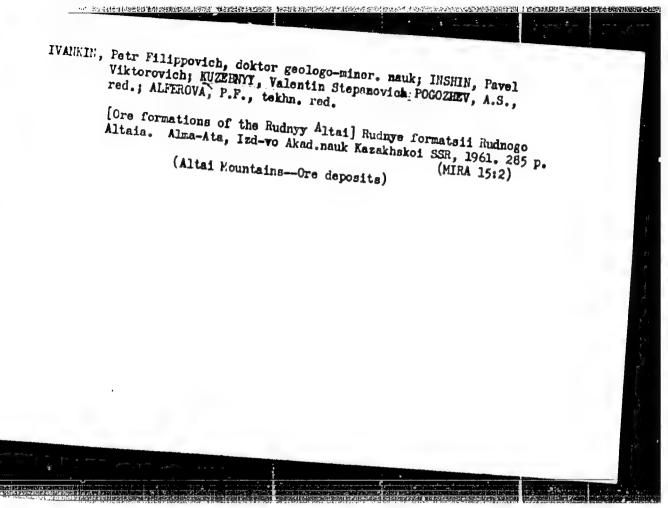










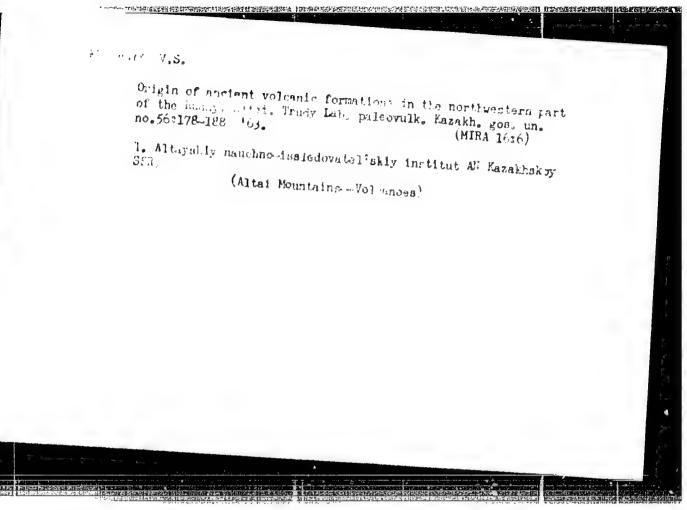


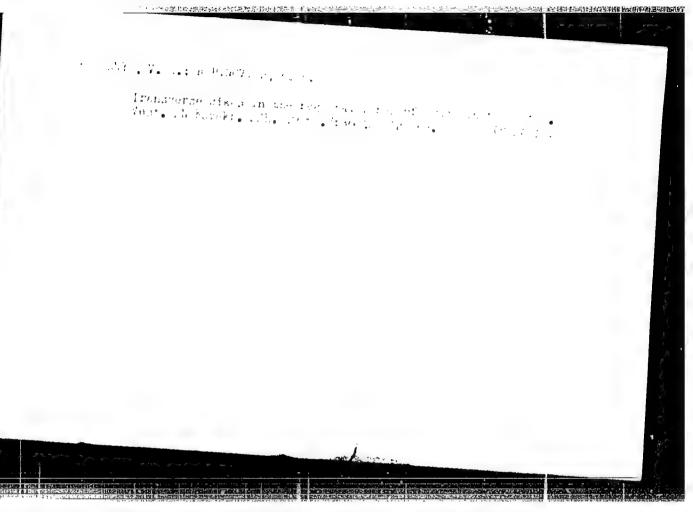
KUZEBNYY, V.S., BEDAMAY, B.P.; FOLTOWYRHER, P.I.

Types of Told structures in the southwestern wing a the Aleyanticlinorium in the Rudnyy Altai. Geol. i 600flz. 1.02705/dec (NT.A. 10:5)

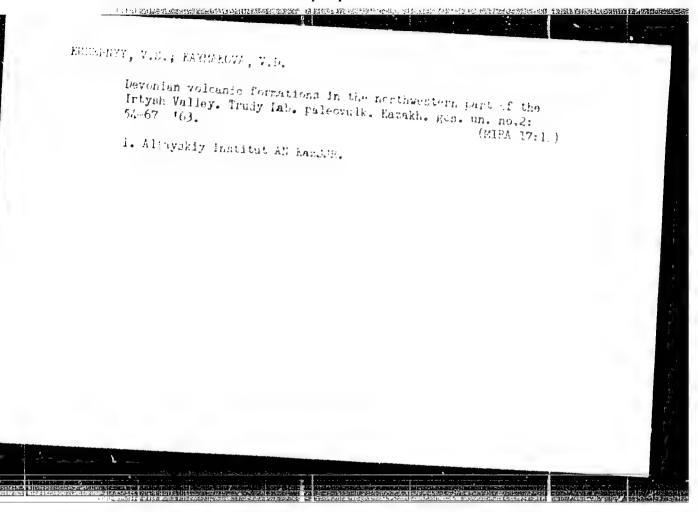
1. Gornometallurgicheskiy nauchno-issledovatel\*skiy institut

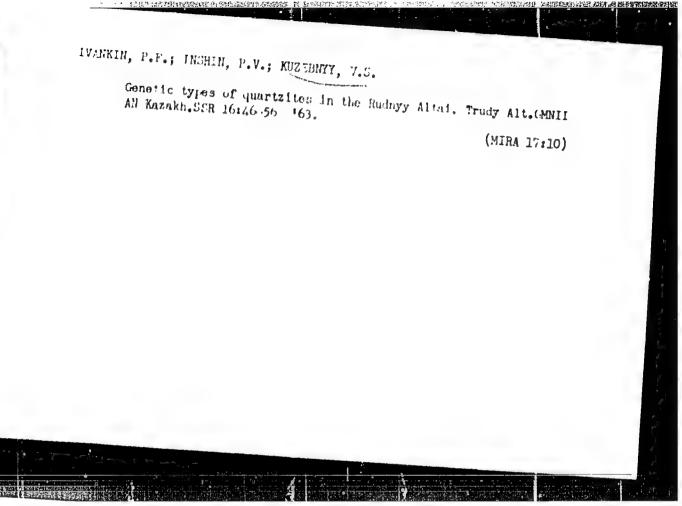
(Altai Mountaino-Folds (Geology))



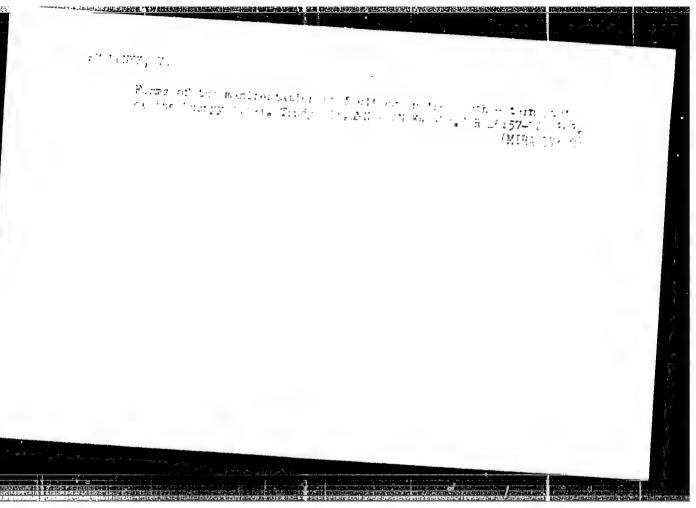


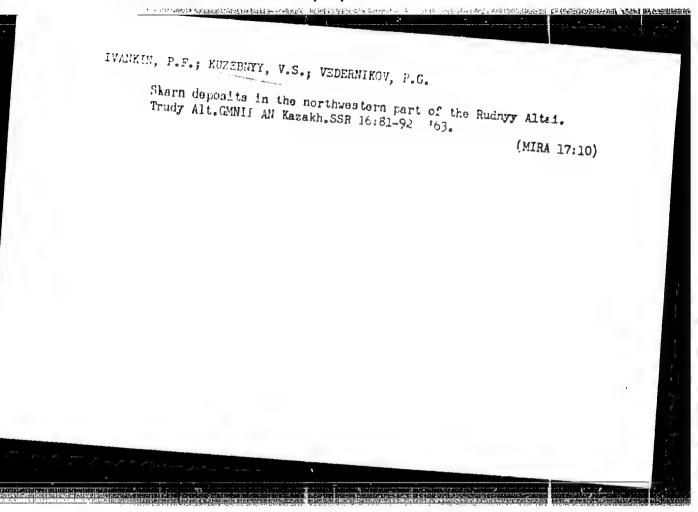
APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927930011-9"

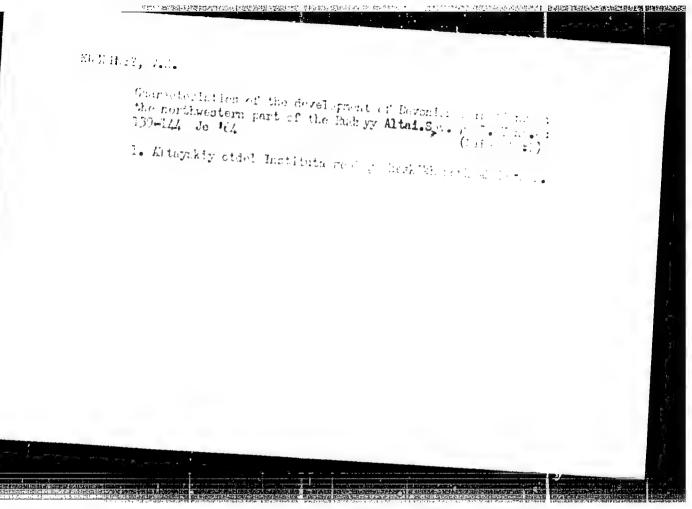




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KOTASEK, Alfred, Doc. Dr.; KUZEL, Dobrcail, Dr.; FILIP, Jan, Dr., FAPEZOVA, Rusena

Fibrinogen changes in labor and pregnancy. Cesk. gyn. 22[37] no.1/2:

1. I. por. klinika KU v Praze, prednosta prof. Dr Karel Klaus. 1. int. klinika KU v Praze, prednosta prof. Dr Milos Netousek. A. K., Praha 2,

(FIBRINOGEN,

in labor & pregn. (Cz))

(IAGOR, blood in

fibrogen level (Cz))

(PREGNANCY, blood in

same)

KUZEL

CZECHOSLOVAKIA / General Problems of Pathology. Tumors. Human Heoplasm. U-4

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 94067

Author : Kuzel, Dobronil: Trnka, Vaclav Inst

: Not given

Title : Two Cases of Myona of the Vacina.

: Ceskosl. Cynackol., 1958, 23-37, No. 1-2, 74-79 Orig Pub

Abstract : Two cases of myorm of the vagina are described in women 35 and 40 years old. In the first patient the tunor was localized in the lateral wall of the vagina, and in the second

patient in the left formix of the vagina. Histology in both patients disclosed leionyona. -- From the authors' abstract.

Card 1/1

23

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927930011-9"

KOTASEK, Alfred; KUZEL, Dobromil

On the significance of fibrinolysis in labor hemorrhage. Cenk. gyn. 24[38] no.8:599-601 0 '59

1. I. por. kl.KU, Praha, prednosta prof. dr. Karel Klaus.
(HEMORRHAGE POSTPARTUM blood)
(FIBRINOLISIS)

KUZEL,D.; KOBILKOVA,J.; NEUGERAUEROVA, L.; CERVENKA, J.; CECH,E.

Effect of prolonged pregnancy on development of the fetus.

Gesk. gymek. 29 no.4:281-283 My\*64

1. Cyn.-por. klin. fakulty vseobecneho lek. KU [Karlovy university] v Praze (prednosta: prof. dr. K.Klaus, DrSc.)

a II. det. klin. fakulty det. lek. KU [Karlovy university] v Praze (prednosta: prof. dr. J.Houstek, DrSc.).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927930011-9"

THE RESIDENCE OF THE PARTY OF T

CERVENKA, J.; KOTASEK, A.; KOBILKOVA, J.; KUZEL, D.; STRIBENY, J.

Cytology and urocutology in pregnant subjects with late gestoses. Cesk. gynek. 29 no.4:284-289 My'64

1. I. gym.-por. klim. fak. vseob. lek. KU [Karlovy university] v Praze; vedouci: prof. dr. K.Klaus, DrSc.

KOBILKOVA, J.; CERVENKA, J.; CECH, E.; KUZEL, D.; SKRIVAN, J. Materat. spoluprace : DRDKOVA,S.

Biological preparation for labor in women with untimely and premature amniotic fluid flow. Cesk. gynek. 29 no.4:273-276 My 64

1. I. gyn.-por. klin. fakulty vseobecneho lek. KU [Karlovy university] v Praze; prednosta: prof. dr. X.Klaus, DrSc.

CIA-RDP86-00513R000927930011-9

KOTACEK, A.; STASTEY, J.; KUSEL, B.; BEFOTAK, M.; CVE, A.; CIE-CVA, J.

The estrogen level in the prognosis of the Cetus in women with late toxendas. Cosk. gynek. 29 near/LT8-LF2 // T4L.

1. Gyn.-por. klin. fak. veceb. lek. Earlevy University v Frize (prednosta prof. dr. E. Kluus, fric.).

Cytological evanuation of a clinited in the continuer induction. Cock. gines. New J. Syn. 1 try.

1. Syn. 10: klin. faz. veck. 1ck. taller University with an Open to the Cytological and the Cytological and

CIA-RDP86-00513R000927930011-9

Doff Mar, L.; 100 KB, F.; KB 191, D.

Contribution to hypofilminogenessic homorrhage furing below and abortion. Whitmillek. 11 no.2:162-174 F 105

1. II. vnitrni klinika pr f. D. Berleser II. porednisko-gradkolopicka klinika prof. Dr. lakuse a I. porednisko-graskoloriesa klinika prof. Dr. Klause.

ZOBILKOTA, J.; KUZEL, D.; CREE, E.; CECTE KA, J.

Difficulties with hormonal cytoflagurais. Gook. cynek. 44 nc.3:

1. I. gym.-por. klinika fakulty vseobecocho lekaratvi Kadovy University v Praze (prednesta: prof. dr. K. Klaus, DrSc.).

CEMPETRA, J.; KOTASEK, A.; KUZEL, D.

Our experiences with the Kittrich method f r proof of amilotic fluid flow. Cosk. gynek. 44 no.3:206-209 Ap'65.

1. I. gyn.-por. klinika fakulty vseobecnoke lekarstvi Karlovy University v Praze (preducata; prof. dr. E. Klauc, DrSc.).

Heratology

CZECHOSLOVAKIA

UDC 618.36:612.115.3(:577.156.6)

HERMANSKA, Z.; KUZEL, D.; VANECKOVA, H.; Central Mematological Laboratory, Faculty Hospital (Ustredni Hematologicka Laborator Fakultni Nemocnice), Prague, Mead (Vodouci) Dr M. SUCHAN; 1st Gynecological Clinic, Faculty of General Medicine, Charles University (I. Gynekologicko-Perodnicka Klinika Fakulty Vscobecneho Lekarstvi KU), Prague, Head (Prednosta) Prof Dr K. KLAIS.

"Basic Notions of the Fibrinolytic System in Placental Blood Circulation."

Prague, Gasopis Lekaru Coskych, Vol 105, No 39, 23 Sep 56, pp 1044 - 1046

Abstract Authors' English summary modified 7: Acceleration of Fibrinolysis in some pathological conditions in adults is compared to Fibrinolysis in blood vessels in the placenta. The occurrence in the placenta is, however, physiological not pathological. Causes of these physiological changes are discussed. 5 Figures, 1 Table, 13 Western, 14 Czech references.

KUZBL K. (1791).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927930011

Chemickych Laboratori Statniho Balneologickeho Ustavc v Marianskych Lexnich. Nase urcovani kyslicniku uhliciteho v mineralnich vodach Determination of carbon dioxide in mineral waters Casopis Lekaru Ceskych 1948, 87/27-28 (806-807) Graphs 1 The mineral water is neutralized with NaON or Ba(CN)2 in excess and the NaCH surplus is titrated back with an acid employing phenolphthalein as an indicator.

Zadira - Prague

SO: Excerpta Medica, Vol. 11, No. 4, Soct. 11 - April 1949

KUZVI, K.

Determination of oxalic acid in blood and in urine. Lek. listy
Brno 7 no.8:203-206 15 Apr 1952. (CLML 22:2)

1. Of the Central Laboratory (Head--Karel Kuzel, H. D.) of the
Institute of Balneology, Marianske Lazne.

V-6

CZECHOSLOVAKIA/Human and Animal Physiology - Excretion.

Abs Jour : Ref Zhur - Biol., No 2, 1958, 8738

Author Karel Kuzel Inst

8117-1

Title : The Stability of the Composition of the Urine in Connection

Orig Pub : Fysiatr. vest., 1957, 35, No 2, 106-108

Abstract : Described are the substances and factors stabilizing the

composition of the urine in patients with urinary calculi, as well as an artificial means of increasing the stability of the urine by the injection of foreign colloid subs-

Card 1/1

FUZEL, Enrel: PAVLICKOVA, Irena; SHEWETA, Edenek

Theretion of colloidal nitrogen and of electrolytes in standard diet; urine stability in urolithiasis. II. Cas. lek. cesk. 96 nc.27: 923-926 12 July 57.

1. Vyskumny ustav balneologicky, pracoviste v Marianskych Inznich, reditel prof. MUDr Karel Prorovsty.

(URINARY TRACT, calculi

ther., diet, eff. on colloidal nitrogen & electrolyte excretion (Cz))

(MITROOM, in var. dis.

urinary calculi, eff. of diet on excretion (3z))

(DIETS, in var. die.

urinary calculi, eff. on colloidal nitrogen de electrolyte

excretion (Cz))
(BODY FLUID BAIANCE, in var. dis.

urinary calculi, eff. of diets on electrolyte excretion (Cs))

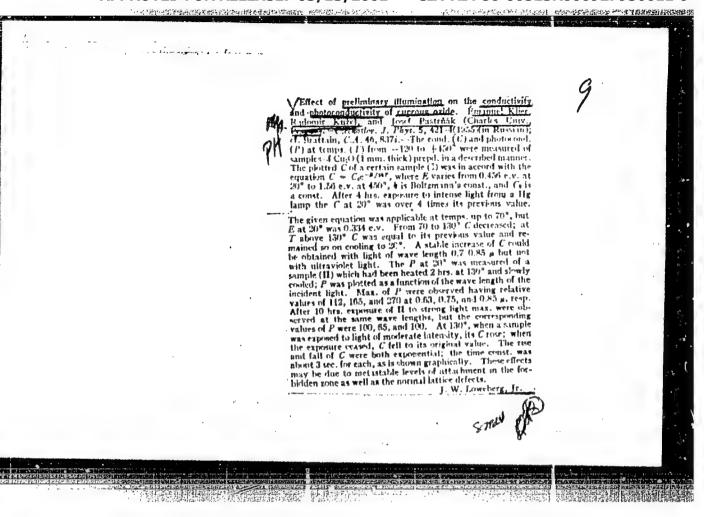


Eliki, a.: which, k.

Determination of the total content of water in the body. I.
Use of naghthorescreinol for the determination of k-aminoantipyrine and Racetyl-A-aminoantipyrine in the serum and urine.
Cas. lek. cesk. 103 no.41:1137-1143 to 164.

1. Vyzkumny ustav pro fyziatrii, balneologii a klimatologii,
Marianske lazne (reditel prof. dr. E. Prerovsky).

#### CIA-RDP86-00513R000927930011-9



KUZEL, RADOMIR

· 一个目的电影中国的特别的自己的种类的特别的

CZECHOSLOVAKIA/Electricity - Semiconductors

G-3

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, 12224

Author

Pastrnak, Josef., Kuzel, Radomir

Inst

Physics Institute of Karlovy University, Prague, Czechoslo-

vakia.

Title

: Effect of Illumination on the Conductivity and Photoconduc-

tivity of Cuprous Oxide.

Orig Pub

: Askosl. casop. fys. 1956, 6, No 2, 170-187

Abstract

: Description of the technology for obtaining specimens of Cu<sub>2</sub>O for the performance of experiments. The electric conductivity is measured by the probe method. It is shown, that at high temperatures (70 -- 900) there is no observed exponential law of variation of conductivity with temperature. If the specimen was illuminated, its conductivity began to increase to saturation, which took place at room

Card 1/2

CZECHOSLOVAKIA/Electricity - Semiconductors

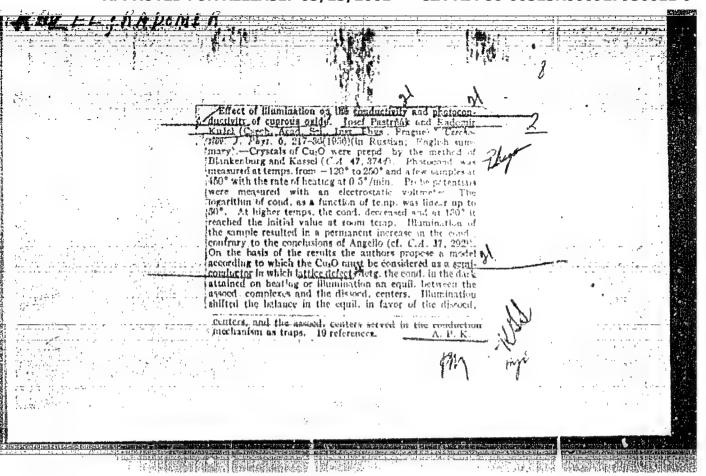
G-3

Abs Jour

: Ref Zhur - Fizika, No 5, 1957, 12224

#### APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927930011

temperature within four hours. When a specimen is heated to temperatures in the range 130 -- 200°, the electric conductivity diminishes. Upon illumination, the electric conductivity again increases. Simultaneously, an investigation was made of the photoconductivity on these "heated" and "illuminated" specimens.



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KUZEL

CZECHOSIOWKJA/Electronics - Semiconductor Devices and Photocells H-6

Nos Jour : Ref Thur - Fining, No 4, 1959, No 3754

: Kuzel Radomir uthor

: Mathematics-Physics Faculty, Karlovy University, Prague. Inst

Chechoslovakia

: Effect of Freliminary Illustration on the Characteristics Title

of Copper-Oxice Rectifiers

Orig Pub : Ceskosi, ensop. fys., 1907, 7, No 6, 705-719

Abstract: The author investigated the effect of preliminary illumination and heating to approximately 150° 0 on the volt-aspere

characteristics, capacitance of the barrier layer, and the concentration of the acceptors in the barrier injer of

copper-oxide rectifiers. The distribution of the concentration of the acceptors was determined with one clintthy method from the slope of Mar lines representing the variation of the capacitudes with the voltage (de). Prior illumination increased the current both in the Portugal and in the

backward directions, one the rectification does ledent was

Card : 1/2

# APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927930011

CURNOSIONII /Steatronics - Designature Devices on Miconsello H.S. The Jour : Ref Thur - Fizika, No 4, 1959, No 8754

> increased thereby. The heating exerted an emposite action, i.e., the especitones of the barrier later and the concentration of the secentum Secreted in the and increased after prior illumination. All the experimental results the wall emplained on the beads of the suggested econdition and dissociation of the centers, projected by fastimiak and the author preciously (Referat thur Finite, 1997, No 5, 12224; No 7, 17595) and thus give a new confirmation of the promises developed in the Pore sing paper. - W.V. V still thenko

: 2/2 Coul

#### CIA-RDP86-00513R000927930011-9

Kuzel, R

CZECHOSLOVAKIA/Electricity - Somiconductors

G-3

Abs Johr : Rof Zhur - Fizika, No 10, 1958, No 23216

Author

: Kuzol Radomir

Inst

: Physics Institute, Karlovy University, Prague, Czechoslovskia

Title

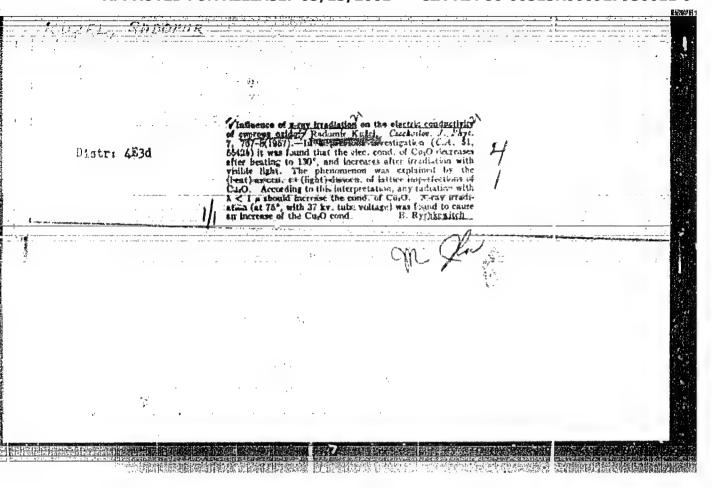
: Influence of Irradiation by X-rays on the Electric Conductivity

of Cuprous Oxide

Orig Pub : Coskosl, cosop, fys., 1957, 7, No 6, 745-746

Abstract: An invostigation was made of the temperature dependence of photoconductivity that occurs in Cu<sub>2</sub>O under the influence of X-rays with a generation voltage of 37 km. Curves are given for the kinetics of the photocurrent at 75°C, and also for the dependence of the saturation current on the temperature for various intensities of excitation. The maximum of the photocurrent lies in a region of 70°C and shifts so which towards higher temperatures as the X-ray intensity increases. Ill the indicated laws are observed in visible light, which, in the author's opinion, indicates that the mechanisms of photoconductivity in light and in X-rays are identical.

Card : 1/1



CHECHOSLOVAKIA/Electronics - Semiconductor Devices and Photocalls H.S.

Ab: Jour: Ref Ehur - Fizika, No 4, 1959, No 6755

Author : Kuzel Rudomir

Inst

: Affect of Prior Illumination on the Characteristics of Title

Copper-Oxide Rectifiers

Or. : Pub : Chekhosl. fiz. zh., 1950, 8, No 1, 81-59

Abstract : See Abstract 375

Cord : 1/1

## APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927930011-

5/194/62/000/005/066/157 D295/D308

24,2130

Kužel, Radomir AUTHOR:

The effect of preillumination on the electrical pro-TITLE:

perties of cuprous oxide and on the characteristics

of cuprous oxide rectifiers

PERIODICAL: Referativnyy zhurnal. Avtomatila i radioelektronika, no. 5, 1962, abstract 5-4-24 ya (Direct Current, v. 6,

no. 6, 1961, 172-179, 181)

TEXT: Describes at length the method and results of a detailed investigation of the variations of the electrical properties of cuprous oxide and of the characteristics of cuprous oxide rectifiers caused by illumination and by the action of increased temperature (up to ~150°C). Samples prepared from Chilean copper according to a conventional technological procedure were investigated. The increase of the electric conductivity of cuprous oxide as a result of illumination was mainly due to the action of 0.9 u wavelength radiation penetrating deep into the samples. The verification of temperature variations of electric conductivity and Hall constant has confirmed Card 1/2

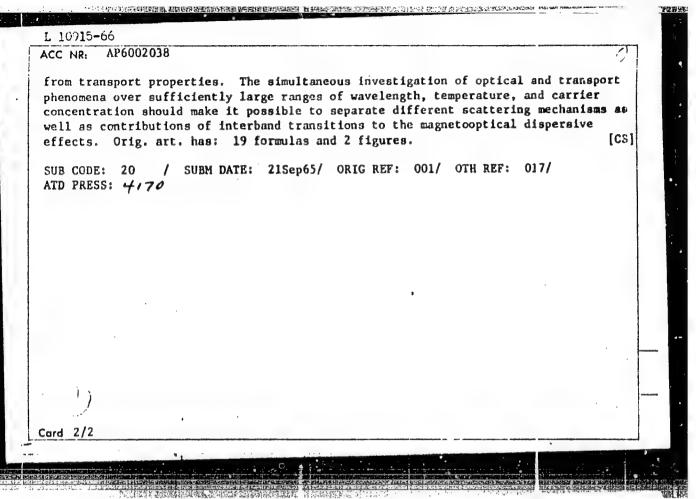
S/194/62/000/005/066/157 D295/D308

The effect of preillumination on ...

the hypothesis of the association of vacant Cu ion nodes, which are the main type of lattice defects, and which form adhesion levels in the temperature range investigated, similarly to the F-centers in alkaline metals. Measurements of the current-voltage characteristics and of the capacitance of cuprous exide rectifiers, in which preadlumination had produced an increase of conductivity in both directions with simultaneous increase of the rectification coefficient by approximately 50 %, have shown that in contrast to cuprous exide, the illumination of preheated samples will not lead, in the case the illumination of preheated samples will not lead, in the case given, to an increase in concentration of acceptor levels to the initial value, owing to diffusion of ions from matrix copper. 22 references (Charles University, Czechoslovakia). [Abstractor's note: Complete translation].

Card 2/2

10915-66 EWP(e)/EWP(t)/EWP(b) IJP(c) JD/WH ACC NR. AP6002038 SOURCE CODE: GE/0030/65/012/002/0697/0705 12 AUTHOR: Prosser, V.; Kuzel, R. 44 57 ORG: Department of Solid State Physics, Charles Univer:ity TITLE: Determination of parameters of complex energy bands in semiconductors from studies of free carrier Faraday rotation, Voigt effect, and transport properties SOURCE: Physica status solidi, v. 12, no. 2, 1965, 697-705 TOPIC TAGS: semiconductor, Voigt effect, Faraday effect, energy band, band theory, Hall effect, uniconducting material, may netooptice, transport preparty, unnevertuation ABSTRACT: In view of the recently developed sensitive double-beam method which makes it possible to measure angles of rotation of the plane of polar: zation of the order of  $10^{-2}$  degrees with good accuracy, the authors suggest that experimental magnetooptical data be used with data on transport properties to determine fundamental parameters of semiconductors with complex bands. The authors then derive general formulas for the Faraday rotation and the Voigt effect for the case of one type of carriers and several types of carriers and discuss the relationship between these phenomena and the general transport properties. The general formulas are then applied to the case then the valence band consists of three nubbands. The theoretical data for diamond and germanium are compared with the experimental results. It is concluded that in the case of complex bands the Faraday rotation and the Voigt effect give valuable information in addition to the data obtained



CIA-RDP86-00513R000927930011-9

JD IJP(c) EWP(t) L 22627-66 SOURCE CODE: CZ/0055/65/015/010/0709/0717 ACC NR: AP6003656 Kuzel, R. AUTHOR: ORG: Faculty of Mathematics and Physics, Charles University, Prague The influence of pre-illumination on the work function of cuprous oxide Chekhoslovatskiy fizicheskiy zhurnal, v. 15, no. 10, 1965, 709-717 SOURCE: TOPIC TAGS: cuprous oxide, work function, electric conductivity, capacitor, stechnole 21,145,75 The author describes measurements of the effect of illumination and heat treatment on the electrical conductivity of cuprous oxide. The main objective of his experimental study was to confirm earlier findings, namely, that the large change of electrical conductivity of Cu20 caused by illumination is not connected with a permanent change of the electron work function and, consequently, the electric conductivity increase due to illumination is a pure bulk effect. These findings, now confirmed, represent a correction of a theory valid until 1956, attributing the change of conductivity to surface properties. The investigation, in which samples of cuprous oxide with either ground or etched surfaces were used, were conducted by the author at the Faculty of Physics in Leningrad. The contact potential difference was measured by means of the vibrating capacitor method, designed by two Soviet physicists O. M. Artamanov, and R. Ya. Berlaga, at the Leningrad's Faculty of Physics. In the process the cuprous oxide sample was employed as one electrode of the capacitor Cord 1/2

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ACC NR: Ap6003656

while a gold-plated brass electrode was used as reference electrode. Simultaneously with the measuring of the contact potential the electrical resistance of the sample was examined by a d-c method. Graphs of the principal measured dependences are given. The author expresses his gratitude to R. Ya. Berlaga and O. M. Artumanov, Faculty of Physica of Leningrad, for making it possible to use their apparitus, and to E. Klier for valuable comments and discussions. Orig. art. has: 5 figures.

SUB CODE: 20/ SUBM DATE: 25Feb65/ ORIG REF: 005/ OTH REF: 006/ SOV REF: 005/

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KUZEL, R.V. USSR/ Scientists - Mcchanical engineering : Pub. 128 - 34/38 Card 1/1 Stechkin, B. S.; Varshavskiy, I. L.; Velikanov, D. P.; Gol'd, B. V.; Kuzel', R. V.; Petrov, V. A.; Fal'kevich, B. S.; and Khrvshel'ev, M. M. Authors : Academician Evgeniy Alekseevich Chudakov, an outstanding scientist in Title the field of Soviet mechanical engineering Periodical : Vest. mash. 9, 100-102, Sep 1954 A short biography is presented of the life-time activities and achieve-Abstract ments of Evgenly Alekseevich Chudakov in mechanical engineering. The article was presented on the occasion of the first anniversar of his death. Institution: Submitted

KUTELA, K.

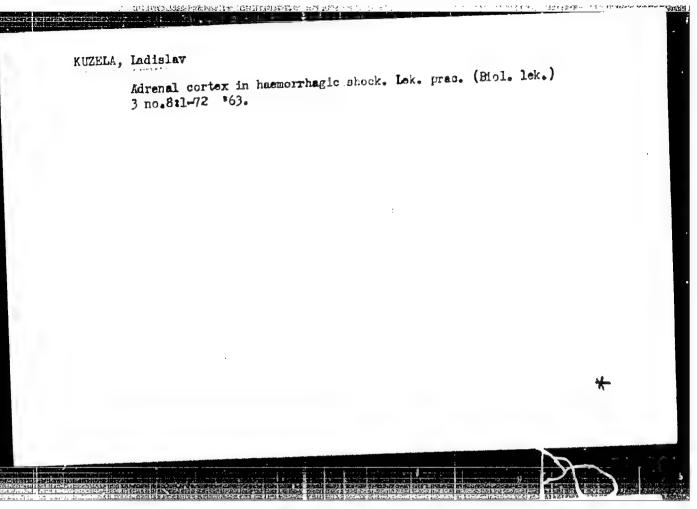
Mobile venilator in the sales departments of the "International Women's Day," 8th of March" National Enterprise. p. 83.

(Textil. Vol. 12, no. 3, Mar. 1957. Praha, Czecioslovakia)

SO: Mont ly List of East European Accessions (ETAL) LC, Vol. 6, no. 10, October 1957. Uncl.

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KUZELA, L.

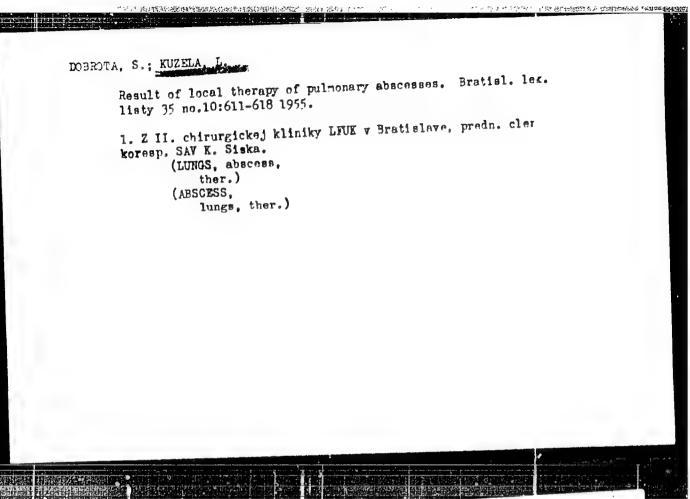
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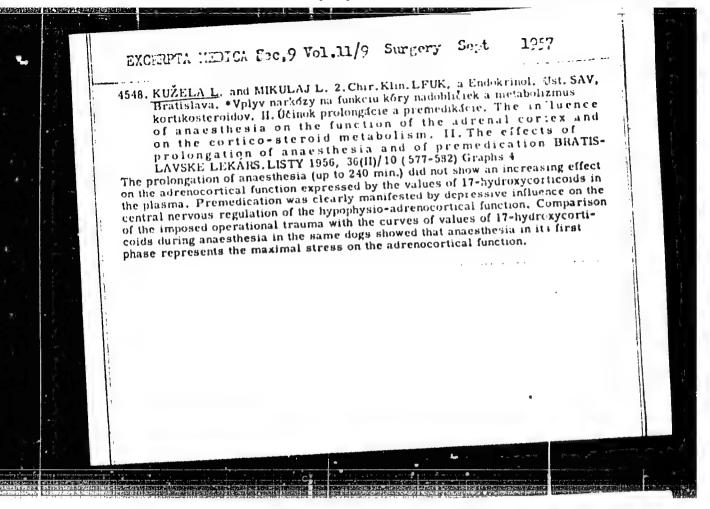
1. Zo seminara II. chir. Kliniky LFSU v Bratislave, prednosta clen koresp. SAV. prof. dr K.Siska.

(STREPTOMORNASE AND STREPTOKINASE, therapeutic use, hematomas & suppurative dis.)

(HEMATCHA, therapy, streptodornase & streptokinase)

(ABSCESS, therapy, streptodornase & streptokinase in suppurative dis.)





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353-358 '62.

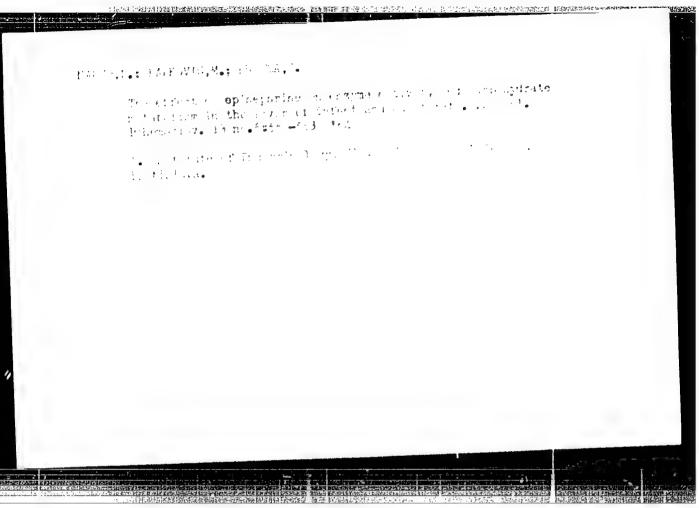
1. 2 II chirurgickoj kliniky Lex. fax. Univ. Komenskeho v Bratislave, prednosta akademik SAV K. Siska.
(COLONIC DISEASES)

(UTERUS)

SISKA, K.; KUZELA, L.; MIKULAJ, L.

Adrenal cortex activity during extracorporeal blood circulation. Bratisl. lek. listy 63 no.3:1/3-1/8 163.

1. II chirurgicka klinika Lek. fak. Univ. Komenskeho v Bratislave, veduci akademik K. Siska. Endokrinologicky ustav SAV v Bratislave, riaditel \* MUDr. J. Podoba, C.Sc. (HEART MECHANICAL) (HEART SURGERY) (HEART DEFECTS, CONGENITAL) (ADRENAL CORTEX HORMONES) (BLOOD CHEMICAL ANALYSIS) (ADRENAL CORTEX HYPOFUNCTION)



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1. KUTHEV, M. A.

2. USSR (600)

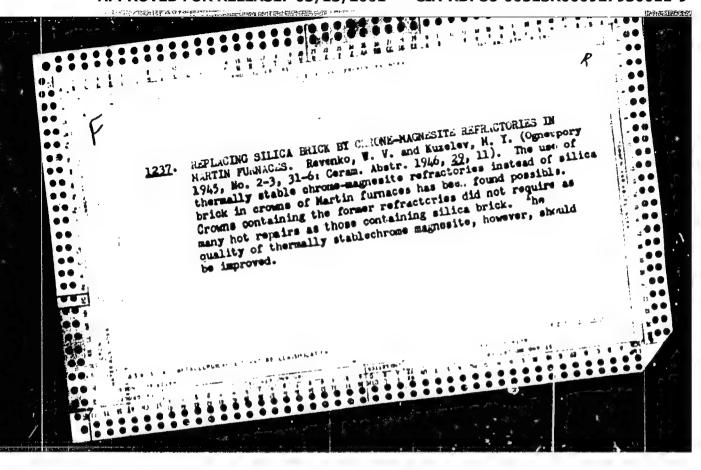
4. Technology

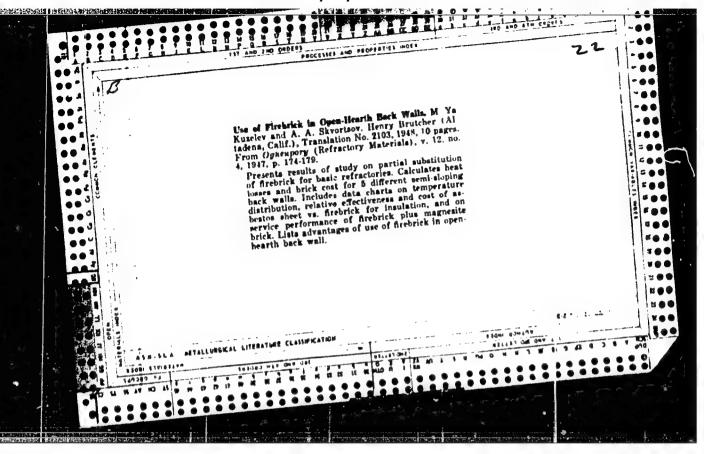
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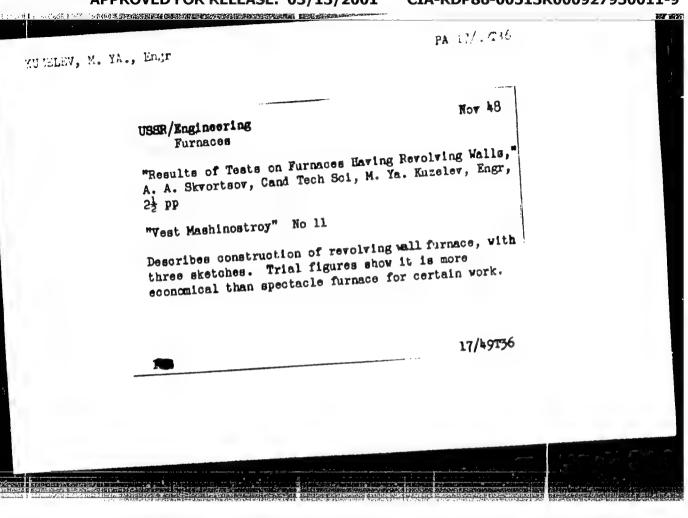
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Unclassified.

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MUXELEV. M.Ya.; SEVORTSOV. A.A.; SMELYAKOV, N.N. [authors]; OKUN', M.A. [re-viewer];

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(Founding) (Kuzelev, M. IA.) (Skvortsov, A.A.) (Smeliakov, N.N.)

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HIVHLEY Mikhail Yakovlevich; SEVORTSOV, Aleksey Anatol yevich; SME:MAKOV, BIROLY MIKOTAYOVICH; ZORHIW, B.F., kandidat tekhnicheskikh muk, reteensent; BORETSKIY, A.A., dotsent, otvetstvennyy redaktor; VOLPYANSKIY, L.M., inshener; redaktor; GDMGEL!MAN, W.R., inshener, redaktor; DEMAKOV, A.F., inshener, redaktor; KOKOVIEA, A.S., inshener, redaktor; EVERDEV, K.M., inshener, redaktor; RAZUMOVA, M.S., inshener, redaktor; SIDONENKO, B.A., inshener, redaktor; ROZENBERG, I.A., kandi-redaktor; SIDONENKO, R.A., inshener, redaktor; ROZENBERG, I.A., kandi-dat tekhnicheskikh muk, redaktor; DUGINA, N.A., tekhnicheskiy redaktor

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Ind. 2-oe, dop. i perer. Moskva, Oos. nauchno-tekhn. isd-vo
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AKHUET C. A.D., kand. tekhn. nauk; GRECK, V.A., inzh.; KASHCHETAYA, N.P., inzh. KUZHLEY, M.Ya., inzh.; SKVORTSOV, A.A., kand. tekhn. nauk; inzh. KUZHLEY, M.Ya., inzh.; SKVORTSOV, A.A., kand. tekhn. nauk; inzh. KUZHLEY, M.Ya., inzh.; SKVORTSOV, A.A., kand. tekhn. nauk; inzh. Ya., inzh.; kashcheratava, N.P., aktiuzi, inzh.; kuziki, inzh

## PHASE I BOOK EXPLOITATION

sov/4365

Kuzelev, Mikhail Yakovlevich, and Aleksey Anatol'yevich Skvortsov

Nagrev metalla pod kovku i shtampovku v plamennykh rechakh (Preheating of Metal for Forging and Stamping in Direct-Flame Furnaces) Leningrad, Sudpromgiz, 1960. 262 p. 5,700 copies printed.

Scientific Ed.: G. V. Malakhovskiy; Editor: Z. V. Ozerova; Tech. Ed.: R. K. Tsal.

FURPOSE: This book is intended for technical personnel and foremen in the forge and press-forging shops. It may also be useful to workers in design and scientific-research institutions, and to students specializing in metalworking in schools of higher education and tekhnikums.

COVERAGE: The book discusses the theory and practice of heating metal in direct-flame furnaces for forging and stamping. Selection criteria temperature ranges in pressworking of metals, and methods for calculation of the heating of steel and nonferrous metal alloys, ingots, and blanks are presented. Regimes and methods of cooling forgings

Card 1/6

Preheating of Metal (Cont.)	sov/4865	
and stampings and measures for preventing loss a of metal during heating are described. No personance are 53 references, all Soviet (including of German).	Dustiffes are menutoned,	
TABLE OF CONTENTS:		
Introduction	3	
Ch. I. Physical and Mechanical Properties of Metal	ls and	
Alloys at Various Temperatures  1. Basic considerations	5 5 6	
2. Coefficient of heat conductivity		
3. Enthalphy and heat capacity	13	
h Volumetric (unit) weight	20	
5. Coefficient of the temperature conductivity	25	
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S/182/60/000/011/012/016 A161/A029

AUTHORS: Akimenko, A.D., Kuzelev, M.Ya., Skvortsov, A.A.

TITLE. Experimental Investigation Into Heating of Steel Blanks for

Forging and Stamping in Molten Salts

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, 1960, No.11, pp.40-42

TEXT: Information is given on experiments at the "Krasnoye Sormovo" works with forging blank heating in molten salt bath heated to 1,300°C. Two salt mixtures were used, a) 30% BaCl<sub>2</sub> and 70% NaCl and b) 70% BaCl<sub>2</sub> and 30% NaCl. Cylindrical specimens 10, 20 and 30 mm in diameter were heated to 1,200-1,250°C. The results confirmed the data obtained by LPI and MZL (Ref. 1). The heating time is 2-3 times shorter than in a chamber furnace; heat losses from the bath surface can be reduced to minimum by using bath covers and covering the bath surface with a layer of graphite powder. The heating costs are approximately the same as in furnaces but the salt bath has technological advantages. The power characteristic of the (N-2 (SP-2) electrode bath is given (Fig. 1); its efficiency at the rated work capacity of 30 kg/hour is only 20-25% and decreases abruptly with Card 1/9

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reduced load. Special baths with higher efficiency (35-40%) are possible in principle. The heat release coefficient from the liquid salt to the metal was determined in the following manner. Using the temperature diagram (Fig 2) in the specimen center,

 $\theta = \frac{(t_{med} - t_{cent})_1}{}$ (1)

where  $(t_{med} - t_{cent})_1$  is the real (varying) difference of the medium and the specimen center temperature, and  $(t_{med} - t_{cent})_{init}$  the initial difference. [Abstractor's note subscripts (medium), cent (center), init (initial) are translations from the Russian op (sreda), 4 (tsentr), (nachalinyy)]. Knowing the  $\theta$  values and the Fourier criterion (Fo), the known D.V. Buarin diagrams may be used for finding the Bio (bi) criteria, but in view of low Bi Card 2/9

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Experimental Investigation Into Heating of Steel Blanks for Forging and Stamping in Molten Salt

values in the experiments (10 and 20 mm blank diameter), a formula from Ref 2 was used for the calculation:

 $\theta = e^{-2FoBi} \tag{2}$ 

Using the obtained Bi value, the mean heat release coefficient  $\alpha_{n}$  is found in the interval from the initial to the final temperature of the center (or the surface)

$$\alpha_{\rm m} = \frac{1}{\tau_2 - \tau_1} \int_{\rm true}^{\tau_1} d\tau$$
 (3)

where  $(\mathcal{T}_2 - \mathcal{T}_1)$  is the heating efficients [Abstractor's note: Subscripts fin (final) and true (true) are translations from the Russian  $\kappa_{\mathcal{T}_n}$  (konechnyy) and  $\kappa_{\mathcal{T}_n}$  (istinnyy); The mean values of the physical material constants in the given temperature interval must be substituted for calculation of Card 3/9

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Experimental Investigation Into Heating of Steel Blanks for Forging and Stamping in Molten Salt

the Bi and Fo criteria. The determined mean heat release coefficient values are shown (Fig. 3) in the form of the relation  $\mathcal{L}_{m} = f(t_{mean})$ .

[Abstractor's note: Subscript mean is a translation from the Russian cp

(sredniy)]. (The diagram includes data obtained by V.F. Kopytov (Ref. 3) and D.V. Vishnyakov (Ref. 4): Vishnyakov obtained a higher heat release coefficient using pure BaCl<sub>2</sub>.) The heating time for blanks can be calculated knowing the heat release coefficient. The calculated time ( $\tau$ ) for cylindrical blanks from 40× (40Kh) steel at m=500 kcal/m<sup>2</sup>·hr·degree is given (Table 2)

Heating	Time in	seconds for	blanks diameters
temperature og	30 mm	20 mm	10 mm
1,200	160	110	56
1,100	90	60	30
1,000	70	47	2

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Experimental Investigation Into Heating of Steel Blucks for Forging and Stamping in Molten Salt

The theoretical calculation with convective heat exchange formulae in liquid media gives exaggerated figures, which can be explained by the thermal resistance of the solidified salt layer. The following conclusions are drawn: 1) the method is applicable to practice and has technological advantages; 2) the mean heat release coefficient from the bath to the metal in NaCl+BaCl<sub>2</sub> at a bath temperature of 1,200-1,350°C is = 500 kcal/m<sup>2</sup> • hour • degree; 3) the obtained data make possible the calculation of heating process variables. Engineers N.P. Kashcheyeva, V.M. Kop'yev and G.N. Khoperskaya took part in the experiments. There are 4 figures and 3 Soviet references.

Card 5/9

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Experimental Investigation Into Heating of Steel Blanks for Forging and Stamping in Molten Salt

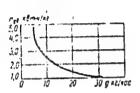


Fig. 1 - The characteristic of SP-2 bath at 1,250°C bath temperature:

ngd in lagher - specific consumption of electric power (including heating up in one-shift day work); g - hourly productivity in kg/hour

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Experimental Investigation Into Heating of Steel Blanks for Forging and Stamping in Molten Salt

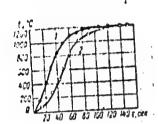


Fig. 2 - Tem; orature curves exam; le: 1 - blank 20 mm in diemeter; 2 - blank 30 mm in diameter

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Experimental Investigation Into Heating of Steel Blanks for Forging and Stamping in Molten Salt

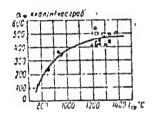
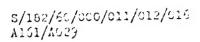


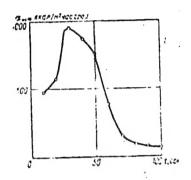
Fig. 3 - The mean heat release coefficient from molten salt bith to metal at different bath temperatures: mixture 70% NaCl and 30% EaCl2; o - specimen 30 mm diam.; A - 20 mm; m - 10 mm. Corresponding a \* E signs for mixture of 30% NaCl and 70% EaCl2 (x - data of V.F. Kopytov; - data of D.Ya. Vishnyakov (NaCl).)

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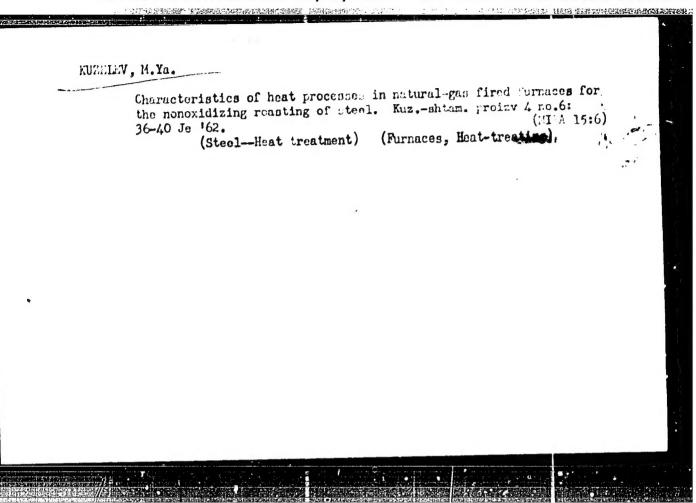


Experimental Investigation Into Heating of Steel Blanks for Forging and Stamping in Molten Salt

Fig. 4



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AKEMEROKO, A.D.; KUZELEV, M.Ya.; SKVOTESOV, A.A.; KHOLSHGERVETECV, A.Va.

Heating blanks for forging and die stamping in a nonoxidizing heating compartment furnace. Kuz.-shtam. proizv 4 no.6:40-47 Je (MITA 15:6)

(Furnaces, Heating)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927930011-9"

KUZELEV, V.Ya.; KUZNETSOV, A.P. Manufacturing tools in school workshops, Politekh.obuch. no.12: (MIRA 11:12)

1. Srednyaya shkola No.475 Hoskvy.
(Machine-shop practice--Study and teaching)

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